

Title (en)

AIRBORNE MULTIBAND IMAGING SPECTROMETER.

Title (de)

FÜR EIN FLUZEUG VORGESEMENES ABBILDUNGS-MEHRBANDSPEKTROMETER.

Title (fr)

SPECTOMETRE MULTIBANDE AEROPORTE A FORMATION D'IMAGES.

Publication

EP 0659269 A1 19950628 (EN)

Application

EP 94910262 A 19930823

Priority

- US 9307865 W 19930823
- US 94416792 A 19920912

Abstract (en)

[origin: US5276321A] A multichannel imaging spectrometer for airborne geological, geophysical and environmental surveys in a moving vehicle. An optical scanner employs a rotating polygon allowing reduced scan optics with increased data acquisition efficiency. Multiple spectrometers integrally registered allow channelization of the received signal to optimize noise performance in the range from ultraviolet through infrared. Output data is in a form for recording and real time display. A staring mode configuration provides enhanced sensitivity by using a two-dimensional detector array and adjustable mirror orientation. A scanning mode embodiment employs a two-dimensional detector array with time delay integration and three-dimensional storage of temporal spatial data and spectral wavelength and intensity. Thus, all channels are acquired simultaneously, resulting in perfect band-to-band registration with continuous spectral curves over the field of view.

IPC 1-7

G01J 3/28

IPC 8 full level

G01V 3/17 (2006.01); **G01C 11/02** (2006.01); **G01J 3/06** (2006.01); **G01J 3/28** (2006.01); **G01J 3/36** (2006.01); **G01N 21/00** (2006.01); **G01V 8/02** (2006.01); **G01V 8/10** (2006.01); **G01V 8/14** (2006.01); **G01J 3/18** (2006.01)

CPC (source: EP US)

G01C 11/025 (2013.01 - EP US); **G01J 3/06** (2013.01 - EP US); **G01J 3/2803** (2013.01 - EP US); **G01J 3/2823** (2013.01 - EP US); **G01J 3/36** (2013.01 - EP US); **G01V 8/02** (2013.01 - EP US); **G01J 3/021** (2013.01 - EP US); **G01J 3/18** (2013.01 - EP US); **G01J 2003/2866** (2013.01 - EP US)

Citation (search report)

See references of WO 9407117A2

Designated contracting state (EPC)

DE DK FR GB IT NL

DOCDB simple family (publication)

US 5276321 A 19940104; EP 0659269 A1 19950628; JP H08501876 A 19960227; WO 9407117 A2 19940331; WO 9407117 A3 19940707

DOCDB simple family (application)

US 94416792 A 19920912; EP 94910262 A 19930823; JP 50808694 A 19930823; US 9307865 W 19930823